

## CTR Employer Survey Report

Thank you for completing your Commute Trip Reduction survey. This report contains the survey results.

**Employer Id :** E85480

**Employer :** Volt Computer and Engineering Services

**Worksite :** Volt Services

**Street :** 11601 Willows Road NE

**Survey :** Trans.  
Pass

**Jurisdiction :** City of Redmond

**Survey Type :** Paper

**Survey Date :** 7/7/2016

**Response Rate :** 47%

### Drive Alone & One-Way VMT Rates at this Worksite

### Employees and Survey Response Information

**Drive Alone :** 68.4%  
**One-Way VMT per employee :** 11.1

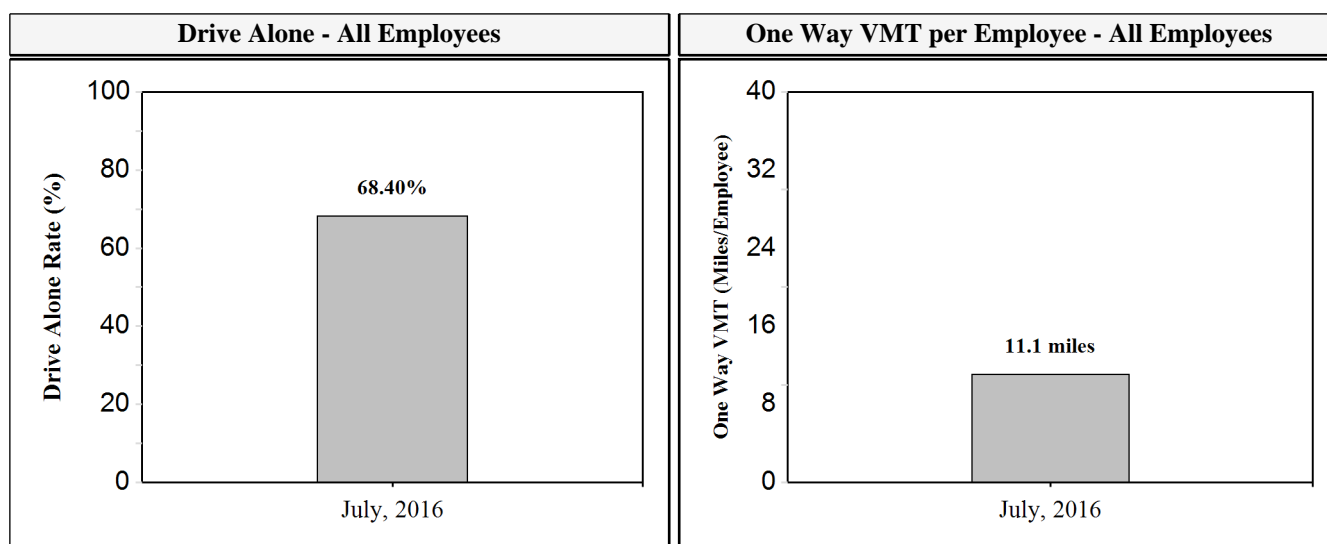
**Reported Total Employees at Worksite:** 200

**Surveys Distributed :** 200

**Surveys Returned :** 94

**Surveys Returned by CTR Affected Employees :** 47

**Total Estimated CTR - Affected Employees at Worksite :** 100



### Site History and Goal

Cycle	Drive Alone - All	Drive Alone - CTR Affected	VMT / Employee - All	VMT / Employee - CTR Affected
July, 2016	68.4%	70.8%	11.1	11.0

## Comparison Between Rates With and Without Fill-In

The survey response rate is indicated on Page 1. To encourage a response rate of at least 70%, additional drive alone trips are added to survey results for worksites with a response rate of less than 70%. For these worksites it is assumed that non-responding employees between the actual response rate and 70% drive alone 5 days a week. These additional trips represent the "Fill-In" applied. Note that fill-in is not applied to a worksite's first survey in the 2007 to 2012 cycle (their baseline survey).

	July, 2016	July, 2016 Without Fill-In
Drive Alone - All Employees*	68.4%	80.2%
Drive Alone - CTR Affected Employees*	70.8%	85.2%
VMT/Employee - All Employees	11.1	12.4
VMT/Employees - CTR Affected Employees	11	12.6

\* Drive alone rate includes one person motorcycles.

## GHG Emissions: Total for Drive Alone, Carpools, Vanpools

### Annual Greenhouse Gas Emissions (Metric Tons CO<sub>2</sub>e) for Roundtrip Commute\*

Value	July, 2016
Emissions for Surveyed Employees	180
Estimated Emissions for Total Employment	384

\* Estimated based on VMT from commuters driving alone, carpooling, vanpooling, or motorcycling, without fill-in applied.

## Bus Transit Passenger Miles and Rail Transit Passenger Miles\*

Annual Transit Passenger Miles (includes Roundtrip Commute)	July, 2016
Bus Annual Passenger Miles - Estimated for Total Employment	155,319
Bus Annual Passenger Miles - Surveyed Employees	73,000
Ferry Annual Passenger Miles - Estimated for Total Employment	0
Ferry Annual Passenger Miles - Surveyed Employees	0
Train/Light Rail/Streetcar Annual Passenger Miles - Estimated for Total Employment	0
Train/Light Rail/Streetcar Annual Passenger Miles - Surveyed Employees	0

\* Transit passenger miles can be used to gauge changes in transit usage, and also to calculate greenhouse gas emissions from transit commute trips. However, emissions attributable to transit vary widely, depending on the efficiency/energy source of transit vehicles and transit vehicle passenger load (typically ranging from 0.1 to 0.9 pounds CO<sub>2</sub>e emissions/passenger mile). Employers are strongly encouraged to contact their local transit agencies for more precise information on GHG emissions for their transit trips. If nothing else is available, the value of 0.47 pounds (0.00021 metric tons) per passenger mile can be used to estimate CO<sub>2</sub>e emissions for bus transit, and 0.39 pounds (0.00018 metric tons) CO<sub>2</sub>e emissions per passenger mile for train/light rail/streetcar.

Q3.

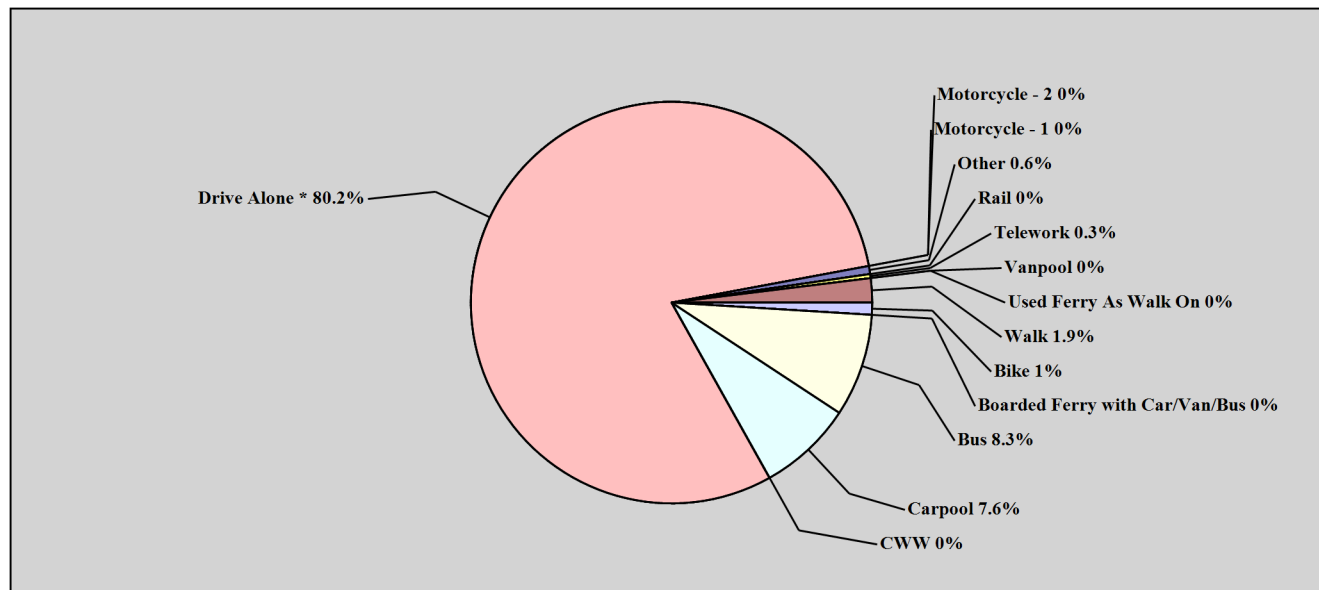
**One way, how many miles do you commute from home to your usual work location?**

**Average one-way distance home to work: 13.5 miles**

## Commute Trips By Mode - All Employees

Q.4a: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - All Employees



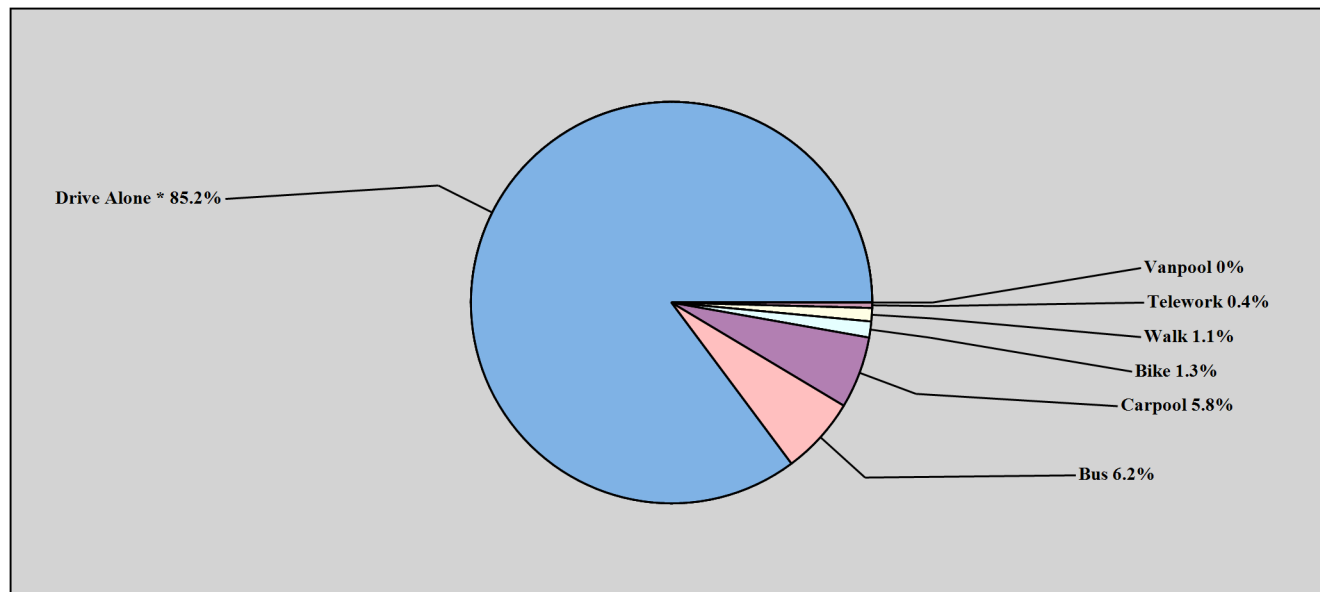
Mode	Trips During This Survey Week	% of Trips During This Survey Week	Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During This Survey Week
Drive Alone *	494	80.2%	65	69.1%
Carpool	47	7.6%	13	13.8%
Vanpool	0	0%	0	0%
Motorcycle - 1	0	0%	0	0%
Motorcycle - 2	0	0%	0	0%
Bus	51	8.3%	15	16%
Rail	0	0%	0	0%
Bike	6	1%	2	2.1%
Walk	12	1.9%	3	3.2%
Telework	2	0.3%	2	2.1%
CWW	0	0%	0	0%
Boarded Ferry with Car/Van/Bus	0	0%	0	0%
Used Ferry As Walk On	0	0%	0	0%
Other	4	0.6%	1	1.1%

\* Drive alone mode includes fill-in, where applicable.

## Commute Trips By Mode - Affected Employees

Q.4a: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - Affected Employees



Mode	Trips During This Survey Week	% of Trips During This Survey Week	Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During This Survey Week
Drive Alone *	397	85.2%	38	80.9%
Carpool	27	5.8%	7	14.9%
Vanpool	0	0%	0	0%
Motorcycle - 1	0	0%	0	0%
Motorcycle - 2	0	0%	0	0%
Bus	29	6.2%	6	12.8%
Rail	0	0%	0	0%
Bike	6	1.3%	2	4.3%
Walk	5	1.1%	1	2.1%
Telework	2	0.4%	2	4.3%
CWW	0	0%	0	0%
Boarded Ferry with Car/Van/Bus	0	0%	0	0%
Used Ferry As Walk On	0	0%	0	0%
Other	0	0%	0	0%

\* Drive alone mode includes fill-in, where applicable.

### Alternative Modes - Number of Employees Who Used a Non-Drive Alone Mode:

Non-Drive Alone Number Of Days	Exactly this # of Employees	Exactly this % of Employees	At least # of Employees	At least % of employees
0 Day	62	66%	94	100%
1 Days	2	2%	32	34%
2 Days	4	4%	30	32%
3 Days	5	5%	26	28%
4 Days	8	9%	21	22%
5 Days	13	14%	13	14%
6 or More Days	0	0%	0	0%

### Work Schedules By Group - All Employees (This table shows the relationship between work schedule and commute mode)

Employees who worked:	Drive Alone 5 days / week		Drive Alone 3 or 4 days / week		Used Bus At Least 3 days / week		Carpooled At Least 3 days / week		Used Rail At Least 3 days / week		Vanpooled At Least 3 times / week		Biked or Walked At Least 3 Days / week		Used 'Other' Modes At Least 3 Days / week		Used Non-Drive Alone At Least 3 Days / week	
5 days a week	29	51.8%	5	8.9%	6	10.7%	8	14.3%	0	0%	0	0%	3	5.4%	0	0%	17	30.4%
4 days a week (4/10s)	3	33.3%	3	33.3%	1	11.1%	0	0%	0	0%	0	0%	0	0%	0	0%	1	11.1%
3 days a week	1	9.1%	0	0%	4	36.4%	1	9.1%	0	0%	0	0%	0	0%	0	0%	5	45.5%
9 days in 2 weeks (9/80)	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
7 days in 2 weeks	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Other	2	16.7%	3	25%	0	0%	0	0%	0	0%	0	0%	0	0%	1	8.3%	2	16.7%

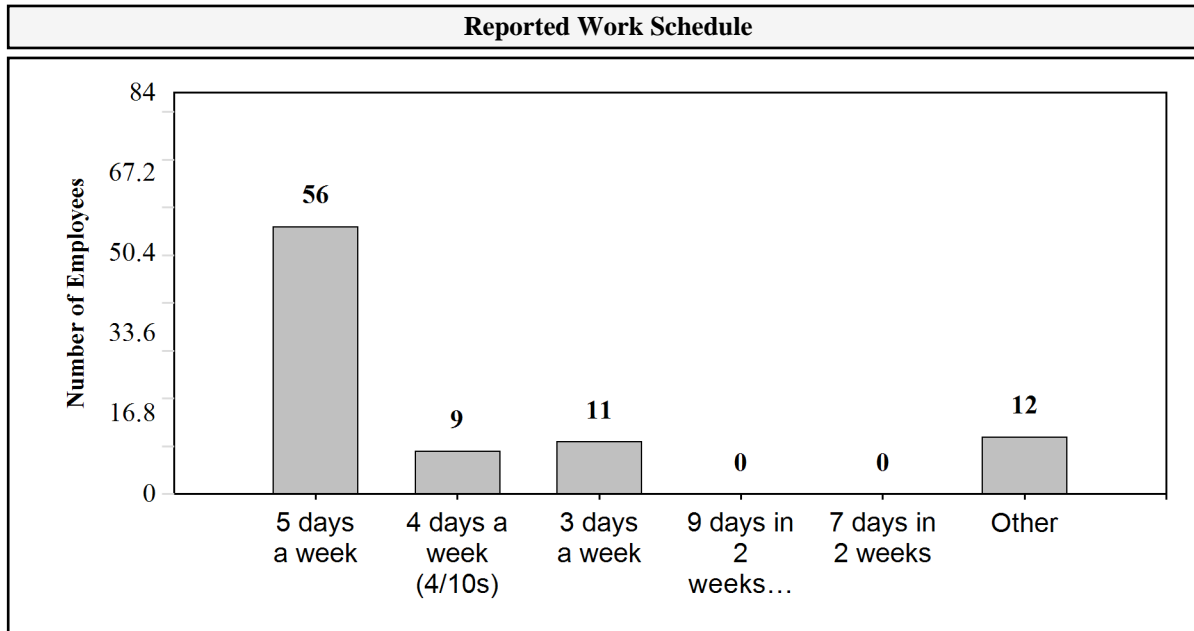
## Count by Occupancy of Carpools, Vanpools, and Motorcycles

Q.4b If you used a carpool or vanpool as part of your commute, or if you ride a motorcycle, how many people (age 16 or older) are usually in the vehicle?

Ridesharing Occupancy	Mode	Response Count
1	Motorcycle	0
2	Motorcycle	0
2	Carpool	46
3	Carpool	1
4	Carpool	0
5	Carpool	0
>5	Carpool	0
<5	Vanpool	0
5	Vanpool	0
6	Vanpool	0
7	Vanpool	0
8	Vanpool	0
9	Vanpool	0
10	Vanpool	0
11	Vanpool	0
12	Vanpool	0
13	Vanpool	0
14	Vanpool	0
15	Vanpool	0

## Reported Work Schedule - All Employees

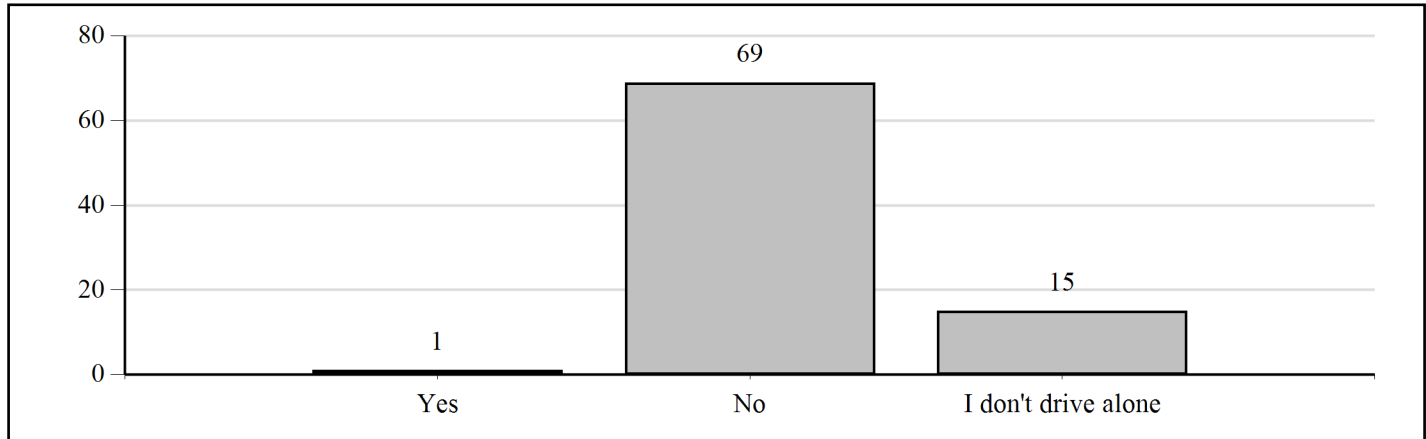
Q.5 Which of the following best describes your work schedule?



Reported Work Schedule	# Of Responses	% Of Employees
5 days a week	56	63.6%
4 days a week (4/10s)	9	10.2%
3 days a week	11	12.5%
9 days in 2 weeks (9/80)	0	0%
7 days in 2 weeks	0	0%
Other	12	13.6%

## Parking and Telework

**Q.9: On the most recent day that you drove alone to work, did you pay to park? (Mark "yes" if you paid that day, if you prepaid, if you are billed later, or if the cost of parking is deducted from your paycheck.)**



**Q.10: How many days do you typically telework?**

Telework Frequency	# of Responses	% of Responses
No Answer/Blank	5	5.3%
I don't telework	77	81.9%
Occasionally, on an as-needed basis	9	9.6%
1-2 days/month	1	1.1%
1 day/week	2	2.1%
2 days/week	0	0.0%
3 days/week	0	0.0%



## Reasons for driving alone to work/not driving alone to work

**Q11. When you do not drive alone to work, what are the three most important reasons?**

Question Text	# of Responses	% of Responses
To save money	40	22.6%
Driving myself is not an option	24	13.6%
Other	21	11.9%
Personal health or well-being	17	9.6%
To save time using the HOV lane	16	9.0%
Environmental and community benefits	15	8.5%
Financial incentives for carpooling, bicycling or walking.	12	6.8%
Free or subsidized bus, train, vanpool pass or fare benefit	7	4.0%
I have the option of teleworking	7	4.0%
Cost of parking or lack of parking	5	2.8%
Emergency ride home is provided	5	2.8%
Preferred/reserved carpool/vanpool parking is provided	5	2.8%
I receive a financial incentive for giving up my parking space	3	1.7%

**Q12. When you drive alone to work, what are the three most important reasons?**

Question Text	# of Responses	% of Responses
I like the convenience of having my car	54	30.0%
Riding the bus or train is inconvenient or takes too long	48	26.7%
Other	22	12.2%
My commute distance is too short	17	9.4%
Family care or similar obligations	14	7.8%
Bicycling or walking isn't safe	10	5.6%
I need more information on alternative modes	8	4.4%
My job requires me to use my car for work	6	3.3%
There isn't any secure or covered bicycle parking	1	0.6%

**Employee Transit Use - All Employees**

**Q 13. Please indicate the number of one-way transit or walk-on ferry trips you took last week on each system listed below (for any purpose, not just getting to and from work). Please select "Other" if your transit isn't listed.**

Trips/Week	Employees Making This Many Transit Trips in a Week									
	Community Transit	Everett Transit	Intercity Transit	King County Metro	Kitsap Transit	Pierce Transit	Sound Transit	Whatcom Transportation Authority	Ferry as Walk-On	Other
1	1	0	0	3	0	0	2	0	1	0
2	0	0	0	0	0	0	0	0	0	0
3	1	0	0	1	0	0	0	0	0	0
4	0	0	0	3	0	0	1	0	0	0
5	0	0	0	1	0	0	2	0	0	0
6	0	0	0	3	0	0	0	0	0	0
7	0	1	0	0	0	0	0	0	0	0
8	0	0	0	1	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	2	0	0	2	0	0	0
11 or more	0	0	0	0	0	0	1	0	0	0
# Of Employees using Transit	2	1	0	14	0	0	8	0	1	0
Total One-Way Transit Trips Per Week	4	7	0	69	0	0	48	0	1	0

**Employee Transit Use - Affected Employees**

**Q 13. Please indicate the number of one-way transit or walk-on ferry trips you took last week on each system listed below (for any purpose, not just getting to and from work). Please select "Other" if your transit isn't listed.**

Trips/Week	Employees Making This Many Transit Trips in a Week									
	Community Transit	Everett Transit	Intercity Transit	King County Metro	Kitsap Transit	Pierce Transit	Sound Transit	Whatcom Transportation Authority	Ferry as Walk-On	Other
1	0	0	0	1	0	0	1	0	1	0
2	0	0	0	0	0	0	0	0	0	0
3	1	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	1	0	0	2	0	0	0
6	0	0	0	1	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	1	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	1	0	0	1	0	0	0
11 or more	0	0	0	0	0	0	0	0	0	0
# Of Employees using Transit	1	0	0	5	0	0	4	0	1	0
Total One-Way Transit Trips Per Week	3	0	0	30	0	0	21	0	1	0

## Commute Mode By ZipCode for All Employees

Q8. What is your home zip code?

Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
	7	7.45%	11	0	0	0	0	0	0	0	0	0	0	0	0
98 2	1	1.06%	1	0	0	0	0	0	4	0	0	0	0	0	0
98003	1	1.06%	1	4	0	0	1	0	0	0	0	0	0	0	0
98004	1	1.06%	4	0	0	0	0	0	0	0	1	0	0	0	0
98005	4	4.26%	8	0	0	0	5	0	0	0	0	0	0	0	0
98006	1	1.06%	5	0	0	0	0	0	0	0	0	0	0	0	0
98007	2	2.13%	0	0	0	0	10	0	0	0	0	0	0	0	0
98008	1	1.06%	5	0	0	0	0	0	0	0	0	0	0	0	0
98010	1	1.06%	5	0	0	0	0	0	0	0	0	0	0	0	0
98011	1	1.06%	2	3	0	0	0	0	0	0	0	0	0	0	0
98012	3	3.19%	11	0	0	0	2	0	0	0	0	0	0	0	0
98019	3	3.19%	10	1	0	0	3	0	0	0	0	0	0	0	0
98021	4	4.26%	11	0	0	0	0	0	0	0	0	0	0	0	0
98026	2	2.13%	7	0	0	0	0	0	0	0	0	0	0	0	0
98031	1	1.06%	3	0	0	0	0	0	2	0	0	0	0	0	0
98033	3	3.19%	13	2	0	0	1	0	0	0	1	0	0	0	0
98034	7	7.45%	11	9	0	0	0	0	0	7	0	0	0	0	4
98036	2	2.13%	5	0	0	0	0	0	0	0	0	0	0	0	0
98037	2	2.13%	10	0	0	0	0	0	0	0	0	0	0	0	0
98052	11	11.70%	21	16	0	0	3	0	0	5	0	0	0	0	0
98053	1	1.06%	5	0	0	0	0	0	0	0	0	0	0	0	0
98056	3	3.19%	4	7	0	0	1	0	0	0	0	0	0	0	0
98058	2	2.13%	10	0	0	0	0	0	0	0	0	0	0	0	0
98074	1	1.06%	5	0	0	0	0	0	0	0	0	0	0	0	0
98075	1	1.06%	4	0	0	0	0	0	0	0	0	0	0	0	0
98087	2	2.13%	4	0	0	0	5	0	0	0	0	0	0	0	0



98102	1	1.06%	0	0	0	0	0	0	0	0	0	0	0	0	0
98105	1	1.06%	0	0	0	0	4	0	0	0	0	0	0	0	0
98106	1	1.06%	0	5	0	0	0	0	0	0	0	0	0	0	0
98107	1	1.06%	0	0	0	0	3	0	0	0	0	0	0	0	0
98109	1	1.06%	0	0	0	0	3	0	0	0	0	0	0	0	0
98116	1	1.06%	5	0	0	0	0	0	0	0	0	0	0	0	0
98117	1	1.06%	0	0	0	0	5	0	0	0	0	0	0	0	0
98122	1	1.06%	6	0	0	0	0	0	0	0	0	0	0	0	0
98125	4	4.26%	19	0	0	0	0	0	0	0	0	0	0	0	0
98133	1	1.06%	5	0	0	0	0	0	0	0	0	0	0	0	0
98155	1	1.06%	3	0	0	0	0	0	0	0	0	0	0	0	0
98188	1	1.06%	5	0	0	0	0	0	0	0	0	0	0	0	0
98199	1	1.06%	0	0	0	0	0	0	0	0	0	0	0	0	0
98203	1	1.06%	5	0	0	0	0	0	0	0	0	0	0	0	0
98208	2	2.13%	5	0	0	0	5	0	0	0	0	0	0	0	0
98258	1	1.06%	5	0	0	0	0	0	0	0	0	0	0	0	0
98270	1	1.06%	5	0	0	0	0	0	0	0	0	0	0	0	0
98272	1	1.06%	6	0	0	0	0	0	0	0	0	0	0	0	0
98275	1	1.06%	4	0	0	0	0	0	0	0	0	0	0	0	0
98373	1	1.06%	6	0	0	0	0	0	0	0	0	0	0	0	0
98408	1	1.06%	5	0	0	0	0	0	0	0	0	0	0	0	0
98499	1	1.06%	4	0	0	0	0	0	0	0	0	0	0	0	0